Author Index

BR – Book Review
LE – Letter to the Editor

A

Agatsuma, T., see Hirai, H. 19
Akogun, O.B., Urinary Schistosomiasis and the Coming of Age in Nigeria 62 LE
Aksoy, S., Site-specific Retrotransposons of the Trypanosomatid Protozoa 281
Alano, P., *Plasmodium* Sexual Stage Antigens 199
Albright, J.F., see Albright, J.W. 137
Albright, J.W., Rodent Trypanosomes: Their Conflict with the Immune System of the Host 137
Alicata, J.E., The Discovery of *Angiostrongylus cantonensis* as a Cause of Human Eosinophilic Meningitis 151
Ammann, R., see Schantz, P.M. 35
Anderson, R., see Schweitzer, N. A76
Andrews, N.W., Phagolysosomal Escape by Intracellular Pathogens 335
Apanius, V., Avian Trypanosomes as Models of Hemoflagellate Evolution 87
Appleton, J.A., Consensus on *Trichinella spiralis* Antigens and Antibodies 190
Arese, P., ***Plasmodium* and the Infected Erythrocyte:** Erythrophagocytosis in Malaria: Host Defence or Menace to the Macrophage? 25
Arnot, D., *Immune Recognition and Evasion: Molecular Aspects of Host–Parasite Interaction* 188 BR
Ash, C., Memorable Responses 1
Ash, C., Macrophages at the Centre of Infection 2
Ash, C., Ticks: Vectors and Vaccines 33
Ash, C., Immunoparasitology A1
Ash, C., First Impressions of the Malaria Vaccine 63
Ash, C., The Puzzle of Protist Organelles 95
Ash, C., Self-Control, 129
Ash, C., Iron in the Cell 295
Ash, C., Limited Tolerance 325
Åslund, L., see Frasch, A.C.C. 148
Ayala, F.J., see Tibayrenc, M. 228
Azambuja, P., see Garcia, E.S. 240

B

Baron, R.W., Mammalian Immune Responses to Myiasis 353
Barry, J.D., The Dynamics of Antigenic Variation and Growth of African Trypanosomes 207
Becnel, J.J., see Sweeney, A.W. 217
Behnke, J.M., *Heligmosomoides polygyrus* or *Nematospiroides dubius?* 177
Bell, R.G., see Appleton, J.A. 190
Bennett, S., Memorable Responses 123 LE
Berendt, T., BSP Malaria Meeting 250 LE
Berzins, K., Pf155/RESA Is Not a Surface Antigen of *Plasmodium falciparum*-infected Erythrocytes 193
Bilezikian, J.P., see Morris, S.A. 82
Blackburn, T.M., see Gregory, R.D. 316
Boothroyd, J.C., see Sibley, L.D. 327
Boreham, P.F.L., The Bancroft Centre: A Tradition Continued 326
Borst, P. Molecular Genetics of Antigenic Variation A29
Brightwell, R., see Dransfield, R.D. 287
Brindle, J., see Richardson, W. 156
Bundy, D., *Parasitic Diseases: Treatment and Control* 187 BR
Bundy, D.A.P., Immunoepidemiology of Lymphatic Filariasis: the Relationship between Infection and Disease A71
Buschman, E., see Schurr, E. A42
Bzik, D.J., The Structure and Role of RNA Polymerases in *Plasmodium* 211

C

Cambie, G., see Landau, I. 350
Camus, D., see Palluault, F. 215
Carter, R., see Mendis, K.N. A34
Cazzulo, J.J., see Frasch, A.C.C. 148
Cerami, A., see Titus, R.G. A13
Chabaud, A., see Landau, I. 350
Chadee, K., see Tse, S-K. 163
Chen, L., see LoVerde, P.T. 303
Chevion, M., see Golenser, J. 142
Chubb, J.C., *Marine Fish Parasitology: An Outline* 357 BR
Clark, I.A., Proposed Link Between Cytokines, Nitric Oxide and Human Cerebral Malaria 205
Clayton, D.H., The Influence of Parasites on Host Sexual Selection 329
Coimbra, Jr, C.E.A., Biological Control for Freshwater Snails 124 LE
Coles, G.C., see Small, A.J. 172 LE
Colwell, D.D., see Baron, R.W. 353
Cook, G.C., *Principles and Practice of Infectious Disease* (3rd edn) 93 BR
Coombs, G.H., *Molecular Parasitology* 220 BR
Cowden, W.B., see Clark, I.A. 205
Cowman, A.F., The P-glycoprotein Homologues of *Plasmodium falciparum:* Are They Involved in Chloroquine Resistance? 70
Cox, F.E.G., see Liew, F.Y. A17
Cox, F.E.G., Cattle May More Safely Graze 155
Cox, F.E.G., Malaria Vaccines: While We Are Waiting 189
Cox, F.E.G., Vector Control: Making Predictions 223
Cox, F.E.G., Parasites and Human T-cell Subsets 261
Craig, P.S., Hydatid Disease in China 46
Cross, J.H., see Murrell, K.D. 68
Curtis, C., *Equipment for Vector Control* 126 BR
Curtis, C., *Biological Control of Vectors: Manual for Collecting, Field Determination and Handling of Biofactors for Control of Vectors* 293 BR

D

Damian, R.T., Tropomyosin and Molecular Mimicry 96
Davern, K.M., see Wright, M.D. 56
David, P.H., see Mendis, K.N. A34
Davies, J.B., *The Natural History of Blackflies* 154 BR
Day, K.P., Naturally Acquired Immunity to *Plasmodium falciparum* A68
Day, K.P., **Human Filariasis:** The Endemic Normal in Lymphatic Filariasis: A Static Concept 341
Dei-Cas, E., see Palluault, F. 215

Denham, D.A., see Grenfell, B.T. 318
Deshan, L., see Craig, P.S. 46
Diamond, L.S., Viruses of Parasitic Protozoa 276 LE
Dobrokhotov, B., *Appropriate Technology in Vector Control* 94 BR
Doenhoff, M.J., The Immune Dependence of Chemotherapy 16
Dransfield, R.D., Control of Tsetse Flies and Trypanosomiasis: Myth or Reality? 287
Dunn, A.M., see Smith, J.E. 146
Dunne, D., *Vaccination Strategies of Tropical Diseases* 31 BR
Dye, C., Population Genetics of Nonclonal, Nonrandomly Mating Malaria Parasites 236
Dye, C., *Bird–Parasite Interactions: Ecology, Evolution and Behaviour* 358 BR

E

Edungbola, L.D., Onchocerciasis Control in Nigeria 97
Ellis, J., Development of a Genetically Engineered Vaccine Against Poultry Coccidiosis 344
Elsasser, T.H., see Fayer, R. 250
Else, K.J., Helper T-cell Subsets in Mouse Trichuriasis 313
Emery, D.L., Vaccines Against Gastrointestinal Nematode Parasites of Ruminants 347
van Eys, G., Euroleish II Workshop 130

F

Favennec, L., Cytopathogenic Effect of *Giardia intestinalis, in vitro* 141 LE
Fayer, R., Bovine Sarcocystosis: How Parasites Negatively Affect Growth 250
Feagin, J.E., see Wilson, R.J.M. 134
Finkelman, F.D., Regulation and Biological Function of Helminth-Induced Cytokine Responses A62
Franklin, R.M., see Sartorius, C. 90
Frasch, A.C.C., Comparison of Genes Encoding *Trypanosoma cruzi* Antigens 148
Fried, B., Role of Lipids in *Schistosoma mansoni* 204 LE
Fu, S., Pyronaridine: A New Antimalarial Drug 310
Furlong, S.T., Unique Roles for Lipids in *Schistosoma mansoni* 59
Furlong, S.T., Reply to B. Fried and M.A. Haseeb 204 LE

G

Gallagher, R.B., see Ash, C. A1
Garcia, E.S., Development and Interactions of *Trypanosoma cruzi* Within the Insect Vector 240
Gardner, M.J., see Wilson, R.J.M. 134
Gauldie, J., see Stadnyk, A.W. A7
Gillin, F.D., Organelles of Protein Transport in *Giardia lamblia* 113
Ginger, C.D., Filarial Worms: Targets for Drugs 262
Ginsburg, H., see Arese, P. 25
Ginsburg, H., see Landau, I. 350
Gobert, J-G., see Favennec, L. 141 LE
Golenser, J., ***Plasmodium* and the Infected Erythrocyte:** The Survival of Plasmodium Under Oxidant Stress 142
Goodwin, L.G., Parasites and Zoos 265
Gottstein, B., see Schantz, P.M. 35
Greenwood, B., Why Do Some African Children Develop Severe Malaria? 277
Gregory, R.D., Parasite Prevalence and Host Sample Size 316
Grencis, R.K., see Else, K.J. 313
Grenfell, B.T., see Bundy, D.A.P. A71
Grenfell, B.T., **Human Filariasis:** A Model for the Dynamics of Human Lymphatic Filariasis 318
Gros, P., see Schurr, E. A42
Gryseels, B., Morbidity, Due to Schistosomiasis mansoni, and its Control in Subsaharan Africa 244

H

Hall, B.F., Strategies of Obligate Intracellular Parasites for Evading Host Defences A22
Hall, J.E., see Ruby, J.D. 173 LE
Halton, D.W., Parasite Neurobiology 34
Harinasuta, C., see Murrell, K.D., 68
Haseeb, M.A., see Fried, B. 204 LE
Helsby, N.A., Inter-individual Variation in the Metabolic Activation of the Antimalarial Biguanides 120
Hillard, S., see Richardson, W. 156
Hirai, H., Triploidy in *Paragonimus westermanii* 19
Holder, T., *Modern Parasite Biology: Cellular, Immunological and Molecular Aspects* 292 BR
Hollingdale, M.R., Malaria Vaccine 172 LE
Homan, W., see Appleton, J.A. 190
Howells, R.E., *Caenorhabditis elegans:* a Model for Parasitic Nematodes 224
Hudson, P., *Parasitism and Host Behaviour* 127 BR

J

Jaenson, T.G.T., The Epidemiology of Lyme Borreliosis 39
James, A.A., Mosquito Salivary Glands: Parasitological and Molecular Aspects 267
James, E., Cloning of Schistosomes 204 LE
Jenkins, D., *Parasitic Helminths of Zoonoses in Africa* 293 BR
Johnstone, I., see Howells, R.E. 224
Joiner, K.A., see Hall, B.F. A22
Joiner, K.A., Rhoptry Lipids and Parasitophorous Vacuole Formation: a Slippery Issue 226
Jourdane, J., Reply to Lewis, F.A. 81 LE

K

Kaye, P.M., *Molecular Aspects of Immune Response and Infectious Diseases (Advances in Host Defense Mechanisms, Vol. 7)* 187 BR
Keymer, A.E., see Behnke, J.M. 177
Kilejian, A., Spherical Bodies 309 LE
King, C.L., Regulation of the Immune Response in Lymphatic Filariasis and Onchocerciasis A54
Kingston, I.B., Nematode Collagen Genes 11
van Knapen, F., see Appleton, J.A. 190
Köhler, P., The Pathways of Energy Generation in Filarial Parasites 21
Krishna, S., *Calcium as an Intracellular Messenger in Eukaryotic Microbes* 186 BR

L

Lambertucci, J.R., see Doenhoff, M.J. 16
Landau, I., Chronotherapy of Malaria: An Approach to Malaria Chemotherapy 350
Langhorne, J., *Current Topics in Microbiology and Immunology: T Cell Paradigms in Parasitic and Bacterial Infections* Vol. 155 128 BR
Langsley, G., BSP Malaria Meeting 309 LE
Lanier, A., see Schantz, P.M. 35
Lawrence, R.A., see Maizels, R.M. 271
Leguía, G., The Epidemiology and Economic Impact of Llama Parasites 54
Lewis, F.A., Cloning of Schistosomes 81 LE
Lewis, J.W., see Behnke, J.M. 177
Liew, F.Y. Nonspecific Defence Mechanism: the Role of Nitric Oxide A17
Lines, J., *Pesticide Resistance in Arthropods* 222 BR
Lloyd, D., *Metazoan Life Without Oxygen* 324 BR
Locksley, R.M., Helper T-cell Subsets in Mouse Leishmaniasis: Induction, Expansion and Effector Function A58
LoVerde, P.T., Schistosome Female Reproductive Development 303

M

Madsen, H., Reply to Coimbra, Jr, C.E.A. 124 LE
Magne, D., see Favennec, L. 141 LE
Maizels, R.M., **Human Filariasis:** Immunological Tolerance: The Key Feature in Human Filariasis? 271
Malo, D., see Schurr, E. A42
Mann, B.J., Cell Surface Proteins of *Entamoeba histolytica* 173
Mansour, T.E., see Webster, P. 142 LE
Marsh, K., see Day, K.P. A68
Marsh, K., see Greenwood, B. 277
Marva, E., see Golenser, J. 142
Maunder, J.W., *The Acari: Reproduction, Development and Life History Strategies* 356 BR

Mberu, E., see Helsby, N.A. 120
McCaffery, M., see Gillin, F.D. 113
McKerrow, J.H., New Insights into the Structure of a *Trypanosoma cruzi* Protease 132
McKerrow, J.H., Reply to North, M.J. 249 LE
McLaren, D.J., see Doenhoff, M.J. 16
McReynolds, L.A., Filarial DNA Probes in Jakarta 65
Mendis, K.N., Antigenic Polymorphism in Malaria: Is It An Important Mechanism for Immune Evasion? A34
Michael, E., see Grenfell, B.T. 318
Michels, P.A.M., The Evolutionary Origin of Glycosomes 105
Miller, L.H., see Warburg, A. 179
Miller, R., *Pneumocystis carinii* 357 BR
Millest, A.L., see Post, R.J. 141 LE
Mitchell, G.F., see Wright, M.D. 56
Mitchell, G.F., Co-evolution of Parasites and Adaptive Immune Responses A2
Modha, J., see Doenhoff, M.J. 16
Moore, K.W., see Mosmann, T.R. A49
Morgan, K., see Schurr, E. A42
Morris, S.A., Modulation of Host Cell Metabolism by *Trypanosoma cruzi* 82
Moser, M., Parasites as Biological Tags 182
Mosmann, T.R., The Role of IL-10 in Crossregulation of T_H1 and T_H2 Responses A49
Murrell, K.D., A Landmark in Food-borne Parasitic Zoonoses 68

N
North, M.J., Trypanosomes and Tomatoes 249 LE
Nutman, T.B., see King, C.L. A54

O
Olerup, O., see Riley, E.M. 5
Opperdoes, F.R., see Michels, P.A.M. 105

P
Palluault, F., Application of 3-D Computer-aided Reconstruction in Parasitology 215
Pearce, E.J., see Finkelman, F.D. A62
Pena, S.D.J., see Simpson, A.J.G. 266
Peters, W., *An Illustrated Book of Helminthic Zoonoses* 359 BR
Petri, Jr., W.A., see Mann, B.J. 173
Pettersson, U., see Frasch, A.C.C. 148
Pfefferkorn, E.R., see Sibley, L.D. 327
Pietrzyk, B., see Palluault, F. 215
Podesta, R.B., Regulation of Gene Expression in Parasitic Flatworms 285
Polderman, A.M., see Gryseels, B. 244
Polla, B.S., Heat Shock Proteins in Host–Parasite Interactions A38
Poole, C.B., see McReynolds, L.A. 65
Post, R.J., Sample Size in Parasitological and Vector Surveys 141 LE
Prociv, P., *Medical Parasitology* (3rd edn) 30 BR

R
Radzioch, D., see Schurr, E. A42
Rajagopalan, P.K., see Bundy, D.A.P. A71
Ravindran, B., Immune-facilitated Drug Action 141 LE
Read, A.F., The Evolution of Virulence: Experimental Evidence 296
Reiner, D.S., see Gillin, F.D. 113
Reinhard, K.J., Recent Contributions to New World Archaeoparasitology 82 LE
Richardson, W., BSP Malaria Meeting 156
Riley, E.M., The Immune Recognition of Malaria Antigens 5
Roberts, M.G., Mathematical Models for Nematode Parasites of Ruminants 4
Rockett, K.A., see Clark, I.A. 205
Rogers, M.V., Do Parasites Express Receptors for Host Lipoproteins? 117
Rossignol, P.A., see James, A.A. 267
Ruby, J.D., Etymology of *Loa* 173 LE

S
Sartorius, C., The Use of Antisense Oligonucleotides as Chemotherapeutic Agents for Parasites 90
Schantz, P.M., Hydatid and the Arctic 35
Schofield, L., On the Function of Repetitive Domains in Protein Antigens of *Plasmodium* and Other Eukaryotic Parasites 99
Schrag, S.J., see Read, A.F. 296
Schurr, E., Genetic Control of Innate Resistance to Mycobacterial Infections A42
Schweitzer, N., Helminths, Immunology and Equations A76
Scott, P., see Locksley, R.M. A58
Service, M.W., *Health and Irrigation. Incorporation of Disease-Control Measures in Irrigation: A Multi-Faceted Task in Design, Construction and Operation*, Volumes I and II 28 BR
Service, M., *Bacterial Control of Mosquitoes and Blackflies* 291 BR
Sher, A., see Finkelman, F.D. A62
Sherry, B., see Titus, R.G. A13
Shoop, W.L., Vertical Transmission of Helminths: Hypobiosis and Amphiparatenesis 51
Sibley, L.D., Proposal for a Uniform Genetic Nomenclature in *Toxoplasma gondii* 327
Siddiqui, A.A., see Podesta, R.B. 285
Simpson, A.J.G., Host-related DNA Sequences in the Schistosome Genome? 266
Skamene, E., see Schurr, E. A42
Small, A.J., Culture, *in vitro*, of Nematodes of Veterinary Importance 172 LE
Smith, J.E., Transovarial Transmission 146
Snow, R., see Greenwood, B. 277
Southgate, V., *A History of Human Helminthology* 221 BR
Stadnyk, A. W., The Acute Phase Protein Response During Parasitic Infection A7
Strong, L., *Safer Insecticides, Development and Use* 127 BR
Stuart, K.D., Circular and Linear Multicopy DNAs in *Leishmania* 158
Sturrock, R., *Hookworm Disease: Current Status and New Directions* 220 BR
Suhrbier, A., Immunity to the Liver Stage of Malaria 160
Suhrbier, A., Reply to Vanderberg, J.P. 340 LE
Sweeney, A.W., Potential of Microsporidia for the Biological Control of Mosquitoes 217

T
Tait, A., see Coombs, G.H. 220 BR
Tanowitz, H.B., see Morris, S.A. 82
Thompson, R.C.A., *Giardiasis (Human Parasitic Diseases* Vol. 3) 125 BR
Tibayrenc, M., Towards a Population Genetics of Micro-organisms: The Clonal Theory of Parasitic Protozoa 228
Titus, R.G., The Involvement of TNF, IL-1 and IL-6 in the Immune Response to Protozoan Parasites A13
Tomley, F., see Ellis, J. 344
Troye-Blomberg, M., see Riley, E.M. 5
Tse, S-K., The Interaction Between Intestinal Mucus Glycoproteins and Enteric Infections 163
Turner, C.M.R., see Barry, J.D. 207
Turrini, F., see Arese, P. 25

U
Urban, J.F., Jr., see Finkelman, F.D. A62

V
Vanderberg, J.P., Rodent Malaria Models 340 LE
Vande Waa, E.A., Chemotherapy of Filariases 194
Vlassoff, C., *Demography and Vector-Borne Diseases* 29 BR
Vlassoff, C., Social and Economic Research in TDR: Future Directions 37

W
Wagland, B.M., see Emery, D.L. 347
Wakelin, D., *Basic Research in Helminthiases* 186 BR
Walliker, D., see Richardson, W. 156
Walliker, D., John Graham Scaife, 1934–1991 227
Walliker, D., Malaria Parasites: Randomly Interbreeding or 'Clonal' Populations? 232
Wang, A.L., Viruses of Parasitic Protozoa 76
Wang, A.L., Reply to Diamond, L.S. 276 LE
Wang, C.C., see Wang, A.L. 76
Warburg, A., Critical Stages in the Development of *Plasmodium* in Mosquitoes 179

Ward, S.A., see Helsby, N.A. 120
Watkins, W.M., see Helsby, N.A. 120
Webster, P., Cloning of Schistosomes 142 LE
Webster, P., see Andrews, N.W. 335
Wellems, T.E., Molecular Genetics of Drug Resistance in *Plasmodium falciparum* Malaria 110
Wernsdorfer, W.H., The Development and Spread of Drug-resistant Malaria 297
Williams, B.G., see Dransfield, R.D. 287
Williams, J., *Atlas of Human Parasitology* (3rd edn); *An Atlas of Protozoan Parasites in Animal Tissues* 125 BR
Williams, S.A., see McReynolds, L.A. 65
Williamson, D.H., see Wilson, R.J.M. 134
Wilson, A., *Handbook of Medical Parasitology* (2nd edn) 356 BR
Wilson, R.J.M., Have Malaria Parasites Three Genomes? 134
Wilson, R.J.M., Reply to Kilejian, A. 309 LE
Wilson, S.M. Nucleic Acid Techniques and the Detection of Parasitic Diseases 255
Wittner, M., see Morris, S.A. 82
Woolhouse, M., *Parameter Estimation in Ecology* 30 BR
Wright, M.D., The Functional and Immunological Significance of some Schistosome Surface Molecules 56

X

Xiao, S-H., see Fu, S. 310

Z

Zhaoxun, D., see Craig, P.S. 46

Subject Index

BR - Book Review
LE - Letter to the Editor
ff - Entry continues on the following pages

A
Ablastin
  trypanosomes, and 88, 138
Acquired immune deficiency syndrome (AIDS)
  Cryptosporidium, and 123
Acute phase response
  parasitism, and A7ff, A10ff
  Sarcocystis cruzi, and 254
  schistosomiasis, and A10
Aedes aegypti
  salivary gland physiology 268
Alaria spp
  vertical transmission of 51ff
Angiostrongylus cantonensis
  epidemiology 151ff
Anopheles spp
  salivary gland physiology 268
Antigenic variation
  Borrelia spp, of A31
  malaria, and A34ff
  Neisseria spp, of A31ff
  Plasmodium falciparum, of A68ff
  Trypanosoma spp, and A29ff, 207ff
Archaeoparasitology 81LE
Ascarissuum
  collagen genes 12ff
Atlases of parasites 125BR

B
Babesia bovis
  phagolysosomal escape, and 337
Bancroft Centre 326
Bcg gene
  non-specific immunity, and A42ff
Bed nets
  malaria control, and 189
  vector control, and 223
Behaviour
  parasitism, and 127BR
Benzimidazoles
  filariasis, and 195
Biochemistry
  parasites, of 324BR
Biological control
  Biomphalaria glabrata, of 124LE
  microsporidia, and 217ff
  vectors, of 291BR, 293BR
Biomphalaria glabrata
  biological control 124LE
  tropomyosin 96
Bird parasite
  evolution 87ff, 358BR
Borrelia burgdorferi
  epidemiology 39ff
  vaccine development for 33
  vectors 33, 39ff
Borrelia spp
  antigenic variation A31
Brugia malayi
  DNA probes 65ff
  immune responses to A54ff
Brugia pahangi
  energy metabolism 21ff
Brugia spp
  immune tolerance, and 272
  mathematical models for 318ff

C
Caenorhabditis elegans
  cuticle genes 11ff
  model for parasitic nematodes, as a 224ff
Calcium
  intracellular messenger, as an 186BR
Candida albicans
  clonal population theory, and 229
Cell cycle control
  Leishmania mexicana, of 129
Cestode
  gene expression 285ff
Chagas disease (see *Trypanosoma cruzi*)
Chemotherapy
  antisense oligonucleotides, and 90ff
  biguanides, and 120ff
  Echinococcus spp, of 36, 49
  filariasis, of A56ff, 24, 194ff
  immune dependence of 16ff
  malaria, of 70ff, 110ff, 120ff, 156, 190, 236ff, 295, 297ff, 310ff, 320ff, 350ff,
  Schistosoma mansoni, and 244ff
  theileriosis, and 155
  Trypanosoma brucei , of 92
Chloroquine
  Onchocerca volvulus, and 197
  Plasmodium falciparum, and 352
Chloroquine resistance
  molecular genetics of 110ff
  Plasmodium falciparum, and 70ff, 110ff, 297ff, 350ff
Circumsporozoite protein
  malaria vaccines, and 1
Clonal population theory
  Plasmodium falciparum, and 228ff, 232ff, 236ff,
Coccidiosis
  llamas, in 55
  vaccines for 344ff
Co-evolution
  parasites and immune responses, of A2ff
Computer-aided reconstruction
  parasite cell biology, and 215ff
Concomitant immunity
  filariasis, and 274, 320
  parasitism, and A2ff, 325
Control
  parasitic diseases, of 187BR
  tsetse flies, of 287ff
  vectors, of 223
Cuticle
  nematodes, of 11ff
Cytokines
  acute phase response, and the A8ff
  Leishmania spp, and A15, A58ff, 3, 261
  malaria, and A14ff, 205ff
  Sarcocystis cruzi, and 252ff
  schistosomiasis, and A62ff, 261
  Trichuris muris, and 314
  Trypanosoma cruzi, and A15

D
Diethylcarbamazine
  filariasis, and 194
Dihydrofolate reductase
  biguanides, and 120
  drug resistance, and 110ff
DNA probes
  Leishmania spp, for 130
  parasitic diseases, for 255ff
Drug resistance
  clonal population theory, and 236ff
  malaria, and 110ff, 312, 352
  Plasmodium falciparum, and 236ff, 297ff
  vectors, and 301ff

E
Echinococcus granulosus
  epidemiology 46ff
Echinococcus multilocularis
  epidemiology 35ff
Edhazardia aedis
  mosquitoes, and 219

Eimeria spp
vaccines 344ff
viruses of 79ff
Endocrine regulation
Sarcocystis cruzi, and 251ff
Endosymbiosis
transovarial transmission, and 146
Energy metabolism
filariae, of 21ff
Entamoeba histolytica
lectins 174ff
mucus glycoproteins, and 166ff
pathogenesis, and 174ff
surface proteins 173ff
Epidemiology
Angiostrongylus cantonensis, of 151ff
Borrelia burgdorferi, of 39ff
drug-resistant *Plasmodium*, of 297ff
Echinococcus multilocularis, of 35ff
filariasis, of A71ff, 318ff, 341ff
fish parasites, of 182ff
Leishmania spp, of 130
llama parasites, of 54ff
malaria, of A68ff
tsetse flies, and 287ff
Wuchereria bancrofti, of A71ff
Evolution
glycosomes, of 105ff
immune responses, and A64
protist organelles, of 95
textbook 259BR
virulence, of 296

F
Fasciola hepatica
lipoprotein receptors, and 117
Filariasis
chemotherapy A56ff, 194ff, 262ff
diagnostics for 65ff
eosinophils, and A55
epidemiology 318ff, 341ff
immune responses, to A54ff, A71ff, 271ff, 320, 341ff
immune tolerance, and A56, 271ff,
immunoepidemiology A71ff
mathematical model of 318ff
pathogenesis, and 271
T-cell subsets, and A54ff
vaccines for 275
Fish parasites
population tags, as 182ff
textbook 357BR

G
Gametogenesis
Plasmodium spp, of 199ff
Genome organization
Leishmania spp, of 158
Plasmodium falciparum, of 129, 134ff
schistosomes, of 266
Giardia
textbook 125BR
Giardia intestinalis
pathogenesis, and 141LE
Giardia lamblia
mucus glycoproteins, and 167ff
organelles 95, 113
viruses 77ff
Glossina spp
control 287ff
Glycolysis
Trypanosoma brucei , in 107ff
Glycosomes
evolution 95, 105ff
Leishmania mexicana, in 109

H
Haemonchus contortus
collagen genes 12ff
culture 172LE
mathematical models for 4
vaccine development 347ff
Health education
helminth control, and 1
Heat shock proteins
Leishmania major, and A39ff
malaria, and A40
Trypanosoma cruzi , and A39ff
Heligmosomoides polygyrus
nomenclature 177ff
T-cell subsets, and A62ff
Helminthology
history of 221BR
textbook 186BR
Hookworm
textbook 220BR
Host cell invasion
Leishmania, by 2
rhoptries, and 226
Toxoplasma gondii, by 2
Human leukocyte antigens (HLA; see also MHC)
malaria, and 1, 8ff, 279
Hymenolepis diminuta
gene expression in 285ff
Hypoderma spp
immune responses to 353ff

I
Immune evasion
complement, and A22ff
parasites, by A3ff
Plasmodium spp, by A34ff, 99ff
schistosomes, by 59ff
Immune responses
cerebral malaria, and 205ff
chemotherapy, and 16ff, 141LE
clinical textbook 259BR
co-evolution with parasites, and A2ff
Echinococcus multilocularis, to 36
enteric parasites, to 163ff
evasion of 188BR
filariasis, to A54ff, A71ff, 271ff, 320, 341ff
helminths, to A62ff
Hymenolepis diminuta, to 285
infectious diseases, to 187BR
Leishmania major, to A18, A58ff, 131
malaria, and A14ff, A34ff, A40, A68ff, 1, 5, 25ff, 102ff, 123LE, 157, 205ff, 277ff, 279
myiases, to 353ff
nitric oxide, and A17
parasitism, and 325
Plasmodium falciparum, to A68ff, 99ff, 145, 157, 160ff, 279ff
Sarcocystis cruzi, to 252ff
Trypanosoma cruzi, to A15, A22, A39ff, 82ff, 150, 261
Trypanosoma lewisi , to 137ff
Trypanosoma musculi , to 137ff
Immunoepidemiology
filariasis, of A71ff
helminths, of A76ff
malaria, of A68ff
Immunoparasitology A1ff
Immunosuppression
mathematical models of A77
trypanosomes, and 139
Infectious diseases
textbook 93BR
Insecticides
use of 127BR
Intestinal parasitism
acute phase response, and A10ff
Irrigation
disease control, and 28BR
Ivermectin
filariasis, and 98, 195ff, 262ff
Ixodes spp
Borrelia burgdorferi, and 39ff

L
Leishmania braziliensis
viruses of 79
Leishmania donovani
Bcg gene, and the A42ff
chemotherapy, and 17ff
interleukin-2, and 261
Leishmania major
heat-shock proteins, and A39ff
nitric oxide, and A18
T-cell subsets, and A58ff
tumour necrosis factor, and A58ff
Leishmania mexicana
cell cycle control in 129
glycosomes of 109
Leishmania spp
clonal population theory, and 228
DNA probes for 130
epidemiology 130
genome organization 158ff
host cell invasion, and 2
immune evasion by A22
immune responses to 3, A14, A18, A39, A42ff, A58ff, 131, 261
vector identification, and 130
Leishmaniasis
cytokines, and A14ff, A15, A58ff, 3, 261
T-cell subsets, and A58ff
tumour necrosis factor, and A14
Litomosoides carinii
energy metabolism of 23ff
Loa loa
chemotherapy 194
etymology 173LE
immune tolerance to 272
Lyme disease (see *Borrelia burgdorferi*)

M
Macrophages
antigen processing, and 2
Bcg gene, and the A42ff, 3
malaria, and 25ff
Major human compatibility complex (MHC; see also HLA)
malaria, and 1, 5ff, 102ff, 123LE, 279
Malaria (see also *Plasmodium falciparum*)
African children, in 277ff
antigenic variation, and A34ff, A68ff
bed nets, and 189, 223
chemotherapy 70ff, 110ff, 120ff, 156, 189, 190, 236ff, 295ff, 310ff, 350ff
cytokines, and A14ff

drug resistance in 110ff, 297ff, 352
epidemiology of A68ff, 277ff
heat-shock proteins, and A40
immune responses, and A13ff, A68ff, 5ff, 157, 205ff, 279ff,
immunoepidemiology of A68ff
macrophages, and 25ff
MHC, and A68ff, 1, 5ff, 102ff, 123LE, 279,
nitric oxide, and 205ff
nutrition, and 280
oxidant stress, and 142ff
rodent models of 340LE
subunit vaccines, and 5ff
tumour necrosis factor, and A13ff, A68, 205
vaccine 1, 63ff, 172LE, 189
vectors 179ff
Male
menstruation 62LE
Mathematical modelling
data collection, and 30BR
filariasis, of A71ff, 318ff
immune responses, of A76ff
protozoa, of 62
ruminant's parasites, of 4
trypanosomes, of 210
Medical parasitology
textbook 30BR, 356BR
Microsporidia
biological control of mosquitoes, for 217ff
Molecular mimicry
host and vector, of 96
Molecular parasitology
textbook 220BR
Mosquitoes
microsporidia of 217ff
Plasmodium development, and 179ff
salivary gland physiology of 267ff
Mucus
intestinal parasites, and 163ff
Mycobacterium leprae
Bcg gene, and the A42
Myiases
immune responses, and 353ff

N

Nematode collagen genes
cuticle, and the 11ff
Nematospiroides dubius
nomenclature 177ff
Neurobiology
parasites, of 34
Nippostrongylus brasiliensis
mucus glycoproteins, and 168ff
T-cell subsets, and A52, A62ff, 314
Nitric oxide
parasitism, during A17ff
Non-specific immunity
Bcg gene, and the A42ff
Leishmania major, to A18, A22ff, 39ff
nitric oxide, and A17
Toxoplasma gondii, to A22ff
Trypanosoma cruzi, to A22ff
Nutrition
malaria, and 280
Sarcocystis cruzi, and 250

O

Onchocerca spp
immune tolerance, and 272
Onchocerca volvulus
chemotherapy 195ff
DNA probes for 65ff
energy metabolism of 21ff
immune responses, and A54ff
Onchocerciasis Control Programme
chemotherapy, and 262ff
Nigeria, in 97ff
Opisthorchis viverrini
foodborne zoonosis, as a 68
Organelles
Plasmodium spp, of 134ff, 309LE
rhoptries as 226
Ostertagia circumcincta
culture 172LE
vaccine development 347ff
Ostertagia ostertagi
mathematical models of 4
Oxidant stress
Plasmodium, and 142ff

P

Paragonimus westermani
triploidy of 19ff
Parasite biology
textbook 292BR
Parasites
zoos, and 265
Pathogenesis
Entamoeba histolytica, and 174ff
filariasis, and 271ff, 320
Schistosoma mansoni, and 244ff
Trypanosoma cruzi, and 82ff
trypanosomes, and 138
Pesticide resistance
textbook 222BR, 259BR
Phagocytosis
malaria, during 25ff
Phagolysosomal escape 335ff
Plasmodium berghei
sexual stage antigens 201
Plasmodium falciparum (see also Malaria)
antigenic variation, and A68ff
cell biology 156ff
cerebral malaria, and 277
chemotherapy 70ff, 110ff, 120ff, 236ff, 295, 297ff, 310ff, 312, 350ff
chloroquine, and 297ff, 352
clonal population theory, and 228ff, 232ff, 236ff
cytokines, and A13ff, A14ff, 161ff
cytotoxic T cells, and 160ff
drug resistance 70ff, 110ff, 236ff, 297ff, 301ff, 312, 352
genome organization 134
heat-shock proteins, and A40
helper T-cells, and 161
ICAM-1, and 250LE
immune responses to A68ff, 102ff, 157, 160, 205ff, 277ff
immunoepidemiology of A68ff
MHC, and the 102ff, 123LE
oxidant stress, and 143
P-glycoprotein, and 70ff
Pf155/RESA 193ff
phospholipase C 309LE
pyronaridine, and 310ff
RNA polymerases 211ff
sequestration 206
sexual stage antigens 200ff
tumour necrosis factor, and A13ff, A68, 205
vaccine 1, 5, 63ff, 157, 172LE, 189
Plasmodium gallinaceum
sexual stage antigens 200ff
Plasmodium knowlesi
oxidant stress, and 143ff
Plasmodium spp
development in mosquitoes 179ff
genome organization 129
immunosuppression, and 99ff
liver stages 160ff
organelles 134, 309LE
oxidant stress, and 142ff
rhoptries 226
Plasmodium vinckei
chemotherapy, and 351ff
Plasmodium vivax
clonal population theory, and 236ff
drug resistance, and 295, 299ff
Pneumocystis carinii
computer-aided reconstruction, and 215ff
textbook 357BR
Population dynamics
parasites as tags, using 182ff
ruminant's parasites, of 4
Trypanosoma congolense, of 210
trypanosomes, of 207ff
Wuchereria bancrofti, of 343
Population genetics
clonal population theory, and 228ff
Praziquantel
Schistosoma mansoni, and 244
Proguanil
Plasmodium falciparum, and 120ff
Proteases
Trypanosoma cruzi, of 132ff
Pyronaridine
malaria chemotherapy, for 310ff

R

Rhodnius prolixus
Trypanosoma cruzi, and 240ff
Rhoptries
host cell invasion, and 226ff
Rickettsia spp
phagolysosomal escape, and 338

S

Sample size
parasite prevalence, and 141LE, 316ff
Sarcocystis cruzi
host growth, and 250ff
Sarcocystis spp
llamas, in 55
Satellite data
vector control, and 223
Scaife, John Graham
obituary 227
Schistosoma haematobium
female reproductive development, and 307
puberty, and 62LE
Schistosoma japonicum
female reproductive development, and 307
lipoprotein receptors, and 118
Schistosoma mansoni
chemotherapy 16ff, 244ff
control 244ff
female reproductive development, and 304ff
gene exchange, and 266

gene expression in 286
genome organization 266
immune responses to A62ff, 261
lipids, and 59ff, 204LE
lipoprotein receptors, and 118
T-cell subsets, and A52, A62ff
tropomyosin 96
Schistosoma spp
surface molecules, and 56ff
Schistosomes
cloning of 81LE, 142LE, 204LE
female reproductive development, and 303ff
genome organization 266
Serine proteases
mice, of 231
nematodes, of 311
Sexual development
schistosomes, and 303ff
Sexual selection
parasitism, and 317, 329ff
Shigella flexneri
phagolysosomal escape, and 336
Signal transduction
Trypanosoma cruzi, and 84
Simulium spp
ecology 154BR
Suramin
filariasis, and 196

T

T-cell subsets
cytokines, and A49ff
filariasis, and A54ff
Heligmosomoides polygyrus, and A62ff
Leishmania major, and A58ff
leishmaniasis, and 3
mathematical modelling, and A76ff
Nippostrongylus brasiliensis, and A62ff
parasitism, and 261
Schistosoma mansoni, and A62ff
Trichuris muris, and 313ff
Textbooks
parasitology, of 323BR
Theileria parva
phagolysosomal escape, and 337
Theileriosis
chemotherapy 155
Ticks and mites
textbook 356BR
Toxoplasma gondii
host cell invasion, and 2
immune evasion A22
nomenclature 327ff
rhoptries 226ff
Trans-splicing
nematode genes, of 14
Transovarial transmission
microsporidia, of 146ff
rickettsia-like organisms, and 146
Triatoma infestans
Trypanosoma cruzi, and 240ff
Trichinella spiralis
antigens 190ff
mucus glycoproteins, and 168ff
Trichomonas vaginalis
lipoprotein receptors, and 117ff
viruses 76
Trichostrongylus colubriformis
mucus glycoproteins, and 170
tropomyosin, and 96
vaccine development 347ff
Trichuris muris
helper T-cell subsets, and 313ff
Tropical medicine
textbook 359BR
Trypanosoma brucei
antigenic variation, and A29ff
antisense oligonucleotides, and 92
chemotherapy 92
clonal population theory, and 231
glycolysis in 107ff
glycosomes 107ff
lipoprotein receptors 117ff
RNA polymerases 212ff
Trypanosoma congolense
population dynamics 210
Trypanosoma cruzi
antigens and genes 148ff
clonal population theory, and 229
cytokines, and A15
heat-shock proteins, and A39ff
immune evasion A22
interleukin-2, and 261
lipoprotein receptors 119
pathogenesis, and 82ff
phagolysosomal escape 336ff
proteases 132ff, 249LE
toxins 85ff
vectors, and development in 240ff
Trypanosoma lewisi
immune responses to 137ff
Trypanosoma musculi
immune responses to 137ff
Trypanosoma spp
retrotransposons 281ff
Trypanosoma vivax
VSG 208ff
Trypanosomes
birds, in 87ff
mathematical models, and 210
Trypanosomiasis
cytokines, and A14ff
Trypanotolerance
genetics of 155
Tsetse fly
control 223, 287ff
Tumour necrosis factor
Leishmania major, and A58ff
leishmaniasis, and 3
malaria, and A13ff, A68, 205
Sarcocystis cruzi, and 253

V

Vaccine development
Borrelia burgdorferi, for 33
Eimeria spp, for 344ff
filaria, for 275
malaria, for 1, 5, 63ff, 172LE, 189
ruminant's nematodes, for 347ff
Schistosoma spp, for 57
Trypanosoma cruzi, for 150
Vaccines
tropical diseases, for 31BR
Vector-borne disease
demography, and 29BR
Vector control 94BR, 126BR, 223
Vectors
biological control of 217ff
Borrelia burgdorferi, of 33, 39ff
drug resistance, and 301ff
Plasmodium spp, of 179ff, 199ff
salivary glands 267ff
Trypanosoma cruzi development, and 240ff
Vertical transmission
helminths, of 51ff
Virulence
evolution 296
Viruses
parasitic protozoa, of 76ff, 276LE
VSG
antigenic variation, and A29ff

W

WHO/TDR
filariasis diagnostics, and 65
research activities A5
social and economic research programme 37ff
Wuchereria bancrofti
chemotherapy 194ff
DNA probes 65
epidemiology A71ff
immune responses to A54ff
immune tolerance, and 272
mathematical modelling, and A71ff, 318ff
population dynamics 343

Z

Zoonoses
Borrelia burgdorferi, and 44
echinococcosis, and 33, 35, 46ff
foodborne 68ff
helminths, and 293BR, 359BR